

Title (en)

Apparatus and methods for recouping scrap dough material

Title (de)

Vorrichtung und Verfahren zur Wiederverwertung von Schrott-Teig

Title (fr)

Appareil et procédé pour récupérer des restes de pâte découpée

Publication

EP 0954972 A3 20000223 (EN)

Application

EP 99202511 A 19930622

Priority

- EP 93916666 A 19930622
- US 90329492 A 19920624

Abstract (en)

[origin: US5240731A] Apparatus and methods of fabricating half products in the field of puffed snack piece fabrication are disclosed including a rotary cutter (16) having an opposed pair of rollers (18). At least one of the rollers (18) of the rotary cutter (16) has cavities (112) arranged in a first, central portion (110) which stamp out first pieces and cavities (118) arranged in second and third, boundary portions (114, 116) for stamping out second pieces from the remaining portions of a continuous dough sheet (14). The first pieces are of the desired shape and size for the half products, and the second pieces are of a size and shape mechanically separable from the first pieces. After stamping, the first and second pieces are dried in an oven (134) and then separated by a separator (136). The dried first pieces form the half product. The dried second pieces can be ground in a grinder (138) and added to the ingredients (120) forming the dough prior to or during mixing in mixer (122). The mixed ingredients (120) are cooked and extruded as dough for formation into a sheet (12) by a sheeting apparatus (124). In the preferred form, the sheet (12) is flipped and aligned into a folded continuous two-ply sheet (14) prior to entering the rotary cutter (16).

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Citation (search report)

- [A] GB 461263 A 19370215 - OTTO KREMMLING
- [A] US 4276800 A 19810707 - KOPPA DANIEL A, et al
- [A] US 4621997 A 19861111 - CAVANAGH JR JOHN F [US], et al
- [A] US 1874511 A 19320830 - HABERMAAS EDWARD W
- [A] BE 336400 A

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US 5240731 A 19930831; AU 4644393 A 19940124; BR 9306595 A 19981208; CA 2138417 A1 19940106; CA 2138417 C 20020820; DE 69328724 D1 20000629; EP 0647098 A1 19950412; EP 0647098 B1 20000524; EP 0954972 A2 19991110; EP 0954972 A3 20000223; ES 2145778 T3 20000716; JP H07507920 A 19950907; KR 100273729 B1 20001215; MX 9303783 A 19940131; US 5529799 A 19960625; WO 9400017 A1 19940106

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